

APPENDIX A – DATA FORMS

Monitoring Plot # _____ Park _____
Slope/Aspect _____ Date: _____
Data Collected by: _____ Page _____ of _____

Seattle Parks & Recreation 45 Natural Systems Design
Orchard Street Ravine Vegetation Management Plan July 2006

TREE DENSITY DATA SHEET

Monitoring Plot # _____

Slope/Aspect _____

Data Collected by: _____ Page _____ of _____

Park _____

Date: _____

Page _____ of _____

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APPENDIX B – LIST OF PLANT SPECIES IDENTIFIED, ORCHARD ST. RAVINE

			Average %Cover by Management Unit		
Vegetation Layer and Species	Common Name	Origin	Blackberry Thicket	Disturbed Sandy Soils	Forest Remnant
Canopy					
<i>Acer macrophyllum</i>	bigleaf maple	N		2.2	2.3
<i>Alnus rubra</i>	red alder	N		0.8	
<i>Arbutus menziesii</i>	Pacific madrone	N		6	9.2
<i>Buddleja davidii</i> *	butterflybush	I	0.4	4	
<i>Cornus nuttallii</i>	Pacific dogwood	N			0.01
<i>Crataegus monogyna</i> *	English hawthorne	I			0.2
<i>Ilex aquifolium</i> *	English holly	I			8.6
<i>Populus nigra</i>	Lombardy poplar	I	4		
<i>Prunus avium</i>	Mazzard cherry	I	3.2	2.6	1
<i>Prunus emarginata</i>	bitter cherry	N			2
<i>Prunus laurocerasus</i> *	English laurel	I			8.6
<i>Pseudotsuga menziesii</i>	Douglas fir	N		5.2	9
<i>Salix scouleriana</i>	Scouler willow	N			2
<i>Sorbus acuparia</i> *	European mountain ash	I			0.01
Shrub					
<i>Clematis vitalba</i>	clematis	I	1		3.8
<i>Corylus cornuta</i>	hazelnut	N		.4	17
<i>Cotoneaster sp.</i>	cotoneaster	I			0.01
<i>Cytisus scoparius</i>	Scots broom	I		3.2	0.5
<i>Daphne sp.</i>	daphne	I			0.01
<i>Gaultheria shallon</i>	salal	N			0.4
<i>Hedera helix</i>	English ivy	I			55.1
<i>Holodiscus discolor</i>	oceanspray	N	0.4		1.1
<i>Lonicera ciliosa</i>	orange honeysuckle	N			0.01
<i>Mahonia nervosa</i>	low Oregon grape	N			8.35
<i>Oemlaria cerasiformis</i>	indian plum	N			1.21
Ornamental broadleaf shrub		I			0.5
<i>Philadelphus lewisii</i>	mock orange	N			0.51
<i>Rosa gymnocarpa</i>	baldhip rose	N			0.02
<i>Rubus procerus</i>	Himalayan blackberry	I	96	12	37.7
<i>Rubus ursinus</i>	dewberry	N			0.02
<i>Sambucus racemosa</i>	red elderberry	N	0.02		
<i>Symphoricarpos albus</i>	snowberry	N			0.12
<i>Vaccinium parvifolium</i>	red huckleberry	N			0.01
Herb					
<i>Convolvulus arvensis</i>	bindweed	I			0.01
Grass		NN		34.2	
<i>Heracleum lanatum</i>	cow parsnip	N			0.1
<i>Holcus lanatus</i>	velvetgrass	NN		2.2	
<i>Hypochaeris radicata</i>	cat's ear	NN		1.4	
Moss				11.4	
<i>Plantago lanceolata</i>	English plantain	NN		0.06	
<i>Polygonum sp.</i>	knotweed	I			1.3
<i>Polystichum munitum</i>	sword fern	N		0.04	3.2
<i>Prunella vulgaris</i>	self-heal	NN		1.6	
<i>Pteridium aquilinum</i>	bracken fern	N			0.1
<i>Rumex acetosella</i>	sheep sorrel	NN		0.8	

Origin: N=native, I=non-native invasive, NN=non-native

*invasive species all found in the shrub layer, but with the potential for attaining canopy size (>20' ht.)

APPENDIX C – WILDLIFE SPECIES OBSERVED IN ORCHARD ST. RAVINE

BIRDS

- | | |
|-------------------------------|----------------------------|
| 1. Band-tailed pigeon* | 28. Golden Crowned Sparrow |
| 2. Rock dove | 29. Purple Finch |
| 3. Western Flycatcher | 30. House Finch* |
| 4. Olive-sided Flycatcher | 31. House Sparrow |
| 5. Common Crow* | 32. Brewer's Blackbird |
| 6. American Robin* | 33. Tree Swallow |
| 7. Starling* | 34. Violet Green Swallow |
| 8. Stellar's Jay* | 35. Barn Swallow* |
| 9. Song Sparrow* | 36. Red Breasted Nuthatch |
| 10. Rufous Sided Towhee* | 37. Wilson Warbler |
| 11. Hermit Thrush | 38. Townsends Warbler |
| 12. Swainson Thrush | 39. Yellow Rumped Warbler |
| 13. Varied Thrush | 40. Rufous Hummingbird |
| 14. Northern Flicker* | 41. Anna's Hummingbird |
| 15. Bewick's Wren* | 42. Downy Woodpecker |
| 16. Golden Crowned Kinglet | 43. Pileated Woodpecker ** |
| 17. Ruby Crowned Kinglet | 44. Evening Grosbeak |
| 18. Bushtit* | 45. Ruffed Grouse |
| 19. Black Capped Chickadee | 46. California Quail |
| 20. Chestnut Backed Chickadee | 47. Bald Eagle*** |
| 21. American Goldfinch | 48. Great Horned Owl |
| 22. Pine Siskin | 49. Sharp Shinned Hawk |
| 23. Bohemian Waxwing | 50. Red Tailed Hawk |
| 24. Cedar Waxwing | 51. Merlin |
| 25. Darkeyed Junco | 52. American Kestrel |
| 26. Brown Headed Cowbird | 53. Western Tanager |
| 27. White Crowned Sparrow | 54. Scrub Jay |

* denotes confirmed nesting

** denotes WDFW Priority Habitats and Species State Candidate species

*** denotes WDFW listed Species of Concern

MAMMALS

- | | |
|------------|--------------------------|
| 1. coyote | 3. eastern gray squirrel |
| 2. raccoon | 4. possum |

APPENDIX D – MONITORING DATA FORMS

PLANT INSTALLATION MONITORING FORM

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Yearly Cycle Implementation Schedule

Site ID #: _____

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Site Preparation												
Invasive Management												
Planting												
Site Improvements												
Maintenance												
Monitoring												

APPENDIX E – GRANT RESOURCES

Table 11 List of Potential Grant Resources for Restoration Projects, Orchard St. Ravine

Company Name	Contact	Focus	Dollar Range	Due
Ben. B. Cheney Foundation	Dr. William O. Rieke, M.D. Executive Director Ben B. Cheney Foundation 1201 Pacific Avenue, Suite 1600 Tacoma, WA 98402 206-572-2442	Lasting benefit for educational purposes. Can be staff time, equipment, travel (i.e. field trips), or enhancement of an environmental education site. Start with a letter of interest.	\$5,000-50,000	Quarterly
Brainerd Foundation	The Brainerd Foundation, 1601 Second Avenue, Suite 610, Seattle, WA 98101 206-448-0676 or fax 206-448-7222 info@brainerd.org http://www.brainerd.org	Environmental quality for the Northwest. Program areas include endangered ecosystems and communications and capacity building. Start with a letter if inquiry.	\$5,000-50,000	March / June/ November
Bullitt Foundation	Bullitt Foundation, 1212 Minor Avenue, Seattle, WA 98101-2825, Emory Bundy, 206-343-0807, www.bullitt.org	Environmental education projects that benefit the Pacific Northwest. Specifically problems that disproportionately impact lower-economic people in urban and rural communities. Projects that build and strengthen the environment and educate the public about protecting and restoring the environment will be given priority. Complete the application as described.	Up to \$10,000 or over \$10,000	May and November
Environmental Education Grants	Environmental Protection Agency, Region 10, EXA-142, 1200 Sixth Avenue, Seattle, WA 98101 Sally Hanft, Environmental Ed. Grants Coordinator (206) 553-1207 or 1-800 424-4EPA http://www.epa.gov/enviroed/grants.html	Supports environmental education projects that enhance the public's awareness, knowledge, and skills to make informed decisions that affect environmental quality. Can be curriculum development or integration of environmental ed into the classroom.	\$5,000-25,000 or over \$25,000	November
GreenWorks!	Caroline Alston, 202-463-2472 or caroline_alston@plt.org GreenWorks! Grants, 1111 - 19th Street NW #780, Washington, DC 20036 www.sendit.nodak.edu/plt/greenw.html	Associated with Project Learning Tree's curriculum. Encourages students to participate in community-based partnerships. Implementing projects such as graffiti paint overs, tree plantings, stream clean-ups, and recycling.	\$200-1,000	October

Company Name	Contact	Focus	Dollar Range	Due
Home Depot Environmental Grants	Director, Community Affairs, The Home Depot, 2455 Paces Ferry Road, Atlanta, Georgia 30339 www.homedepot.com	Environmental research and education of forestry and ecology, green building design, clean-up and recycle, and lead poisoning prevention. Can recruit Home Depot volunteers to help with labor.	Various	Anytime, rolling deadline
Magic Apple Grants	Department of Ecology, Annie Phillips, P.O. Box 47600, Olympia, WA 98504-7600, 360- 407-6408, Fax 360-407-6426 aphi461@ecy.wa.gov http://www.ecy.wa.gov/programs/wq/links/funding.html	Individual teachers who promote knowledge and stewardship of clean water. Water quality education may include test kits, supplies, or field trips.	\$750	March
National Fish & Wildlife Foundation	1120 Connecticut Avenue, NW, #900 Washington, DC 20036 Kathleen Pickering (202) 857-0166 http://www.nfwf.org	Non-profit organizations, local, state or federal government agencies are eligible to apply for funds for community-based projects that improve and restore native salmon habitat, remove barriers to fish passage, or for the acquisition of land/ conservation easements on private lands where the habitat is critical to salmon species. Proposals should focus on building local partnerships to implement on-the-ground restoration projects. Throughout the year they also provide many types of challenge grants to assist priority fish, wildlife, and plant conservation programs.	\$5,000 or \$10,000-150,000	Anytime, rolling deadline
National Tree Trust	National Tree Trust, 1120 G St. NW, Suite 770, Washington, DC 20005 800-846-8733	Seedling order program. Fill out the order form (part 1) to reserve your trees. Describe your project by filling out a separate form (part 2).	Various	Part 1 due in May; part 2 due in October

Company Name	Contact	Focus	Dollar Range	Due
Natural Resources Stewardship Network	King County, Linda Vane (206) 296-8042 or linda.vane@metrokc.gov website: http://dnr.metrokc.gov/wlr/pi/nrsn.htm Also see DNR Grant Exchange: http://dnr.metrokc.gov/wlr/pi/grants.htm Ken Pritchard, (206) 296-8265	Assists urban forestry and watershed stewardship projects by matching the resources of its partners to the needs of communities. Technical assistance and grants are available for projects within the urban growth area of King County that enhance, protect and manage urban forest, soil and water resources through citizen stewardship and volunteer efforts.	\$10,000-75,000	February and October
Puget Sound Water Quality Action Team	PIE Award Program, Puget Sound Water Quality Action Team, P.O. Box 40900, Olympia, WA 98504-0900, 360-407-7300 http://www.wa.gov/puget_sound/Programs/Pie_fund.htm	Public Involvement and Education grants. Small and large projects must directly relate to Puget Sound and involve community partnerships. Focus on solutions for local pollution problems; protecting, preserving, and restoring habitat; motivating people to be environmental stewards; and partnering with others for lasting results.	Small awards up to \$3,000, large awards up to \$50,000	February or ASAP after November for small awards, and November for large awards
Schoolyard Habitats Program	National Wildlife Federation, http://www.nwf.org/schoolyardhabitats/ 703-790-4000	Development of an environmental study site. Includes projects such as bird watching, native planting, pond life studies, wildlife observations. Must be interdisciplinary, standards-based, hands-on, and inexpensive.	Various	March
Seeds for Education	Donna VanBuecken, Executive Director, Wild Ones Natural Landscapers, P.O. Box. 1274, Appleton, WI 54912-1274 920-730-3986 http://www.for-wild.org	Native plant education: enhancement and development of an outdoor learning site. Must include use of and teaching about native plants or seeds. Children need to be involved in the project.	Small awards	November

Company Name	Contact	Focus	Dollar Range	Due
Small Change for a Big Difference	King County, Donna Kalka (206) 296-8494 E-mail donna.kalka@metrokc.gov http://dnr.metrokc.gov/wlr/pi/SmallChange.htm Start with a letter of intent. See website for grant guidelines.	Salmon and watershed education, enhancement, protection, and restoration efforts in King County.	Up to \$1000	Anytime, rolling deadline
Urban Reforestation & Habitat Restoration	King County, Kate Stenberg, Wildlife Program Planner (206) 296-7266 http://dnr.metrokc.gov/wlr/lands/urhrdesc.htm	Grants support projects to reforest urban areas, remove invasive non-native plant species, or provide wildlife habitats.	\$2,000-10,000	October and April
Washington Native Plant Society	Fayla Schwartz, WNPS Education Committee Chair Everett Community College 2000 Tower Street Everett, WA 98201 425-388-9451, fschwartz@evcc.ctc.edu or http://www.wnps.org	Projects may be in the form of a permanent public display including plantings or labeling of native plants, guidelines for an interactive website, or a teacher resource package.	\$500	May and November
Washington State DNR Urban and Community Forestry Program – Community Forestry Assistance Grant	Washington Dept. of Natural Resources Urban and Community Forestry Program P. O. Box 47037 Olympia, WA 98504-7037 Urban_forestry@wadnr.gov 1-800-523-TREE	Tree planting, education, maintenance.	\$3000-\$10,000	Not known (2004 literature)
WaterWorks Block Grants	King County, Ken Pritchard 206-296-8265, ken.pritchard@metrokc.gov http://dnr.metrokc.gov/wlr/waterres/wsf/wsfi.htm	Individual grants are available for projects that protect or improve watersheds, rivers, lakes, wetlands, and tidewater. Projects must provide opportunities for stewardship.	\$5,000 and \$50,000	April and August

Excerpted from: ESS Grant Examples for Workshops (http://www.wfpa.org/ee/WFPAEE/ESS/Grant_info/grant_examples.htm)